SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

WA 2917
10·5·92
8q

QUALITY CONTROL REPORT

TPH by Method 418.1

Client: Burlington Environmental Engineering
Lab No: 27215qc1
Matrix: Soil
Units: mg/kg
Date: October 5, 1992

DUPLICATE

Dup No. 27215-1

Parameter	Sample(S)	Duplicate(D)	RPD
Total Petroleum Hydrocarbons	49,000	50,000	2.0

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

METHOD BLANK

Parameter	Blank Value
Total Petroleum Hydrocarbons	< 10

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

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QUALITY CONTROL REPORT

Total Petroleum Fuel Hydrocarbons by Method 8015

Client: Burlington Environmental Engineering
Lab No: 27215qc2
Units: mg/kg
Date: October 5, 1992

METHOD BLANK

Parameter	Blank Value
Total Petroleum Fuel Hydrocarbons	< 10
SURROGATE RECOVERY%	
1-chlorooctane	111
o-terphenyl	113

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215qc3
Units: ug/kg
Date: October 5, 1992
Blank No: S6248

METHOD BLANK

Compound	Blank Value	PQL
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl Alcohol	ND	670
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl)ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-Di-N-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
Benzoic Acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	670
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	670
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	1,700
Dimethyl phthalate	ND	330
Acenaphthylene	ND	330

Continued . . . . .

SOUND ANALYTICAL SERVICES, INC.

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215qc3
Units: ug/kg
Date: October 5, 1992
Blank No: S6248

METHOD BLANK

Compound	Blank Value	PQL
3-Nitroaniline	ND	1,700
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	1,700
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
2,4-Dinitrotoluene	ND	330
2,6-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
4-Chlorophenyl phenyl ether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	1,700
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl phenyl ether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	1,700
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	580	330
Fluoranthene	ND	330
Pyrene	ND	330
Butyl benzyl phthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	330
bis(2-ethylhexyl)phthalate	ND	330
Chrysene	ND	330
Di-n-octyl phthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Continued. . . . .

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215qc3
Units: ug/kg
Date: October 5, 1992
Blank No: S6248

ND = Not Detected.

PQL = Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

SEMIVOLATILE SURROGATES

Surrogate	Percent Recovery	Control Limits Water	Soil
Nitrobenzene - d5	82	35 - 114	23 - 120
2-Fluorobiphenyl	70	43 - 116	30 - 115
p-Terphenyl-d14	69	33 - 141	18 - 137
Phenol-d6	79	10 - 94	24 - 113
2-Fluorophenol	86	21 - 100	25 - 121
2,4,6-TBP	83	10 - 123	19 - 122

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

DATA QUALIFIER FLAGS

ND: Indicates that the analyte was analyzed for but was not detected. The associated numerical value is the practical quantitation limit, corrected for sample dilution.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

C: The identification of this analyte was confirmed by GC/MS.

B: This analyte was also detected in the associated method blank. There is a possibility of blank contamination.

E: The concentration of this analyte exceeded the instrument calibration range.

D: The reported result for this analyte is calculated based on a secondary dilution factor.

A: This TIC is a suspected aldol-condensation product.

M: Quantitation Limits are elevated due to matrix interferences.

S: The calibration quality control criteria for this compound were not met. The reported concentration should be considered an estimated quantity.

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.

X2: Contaminant does not appear to be "typical" product. Further testing is suggested for identification.

X3: Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.

X4: RPD for duplicates outside QC limits. Sample was re-analyzed with similar results. Sample matrix is nonhomogeneous.

X4a: RPD for duplicates outside QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike was diluted out during analysis.

X6: Recovery of matrix spike outside QC limits. Sample was re-analyzed with similar results.

X7: Recovery of matrix spike outside QC limits. Matrix interference is indicated by blank spike recovery data.

X8: Surrogate was diluted out during analysis.

X9: Surrogate recovery outside QC limits due to matrix composition.

X10: Surrogate recovery outside QC limits due to high contaminant levels.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206) 922-2310 - FAX (206) 922-5047

DATA QUALIFIER FLAGS

ND: -- Indicates that the analyte was analyzed for but was not detected. The associated numerical value is the practical quantitation limit, corrected for sample dilution.

J: The analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

C: The identification of this analyte was confirmed by GC/MS.

B: This analyte was also detected in the associated method blank. There is a possibility of blank contamination.

E: The concentration of this analyte exceeded the instrument calibration range.

D: The reported result for this analyte is calculated based on a secondary dilution factor.

A: This TIC is a suspected aldol-condensation product.

M: Quantitation Limits are elevated due to matrix interferences.

S: The calibration quality control criteria for this compound were not met. The reported concentration should be considered an estimated quantity.

X1: Contaminant does not appear to be "typical" product. Elution pattern suggests it may be _____.

X2: Contaminant does not appear to be "typical" product. Further testing is suggested for identification.

X3: Identification and quantification of peaks was complicated by matrix interference; GC/MS confirmation is recommended.

X4: RPD for duplicates outside QC limits. Sample was re-analyzed with similar results. Sample matrix is nonhomogeneous.

X4a: RPD for duplicates outside QC limits due to analyte concentration near the method practical quantitation limit/detection limit.

X5: Matrix spike was diluted out during analysis.

X6: Recovery of matrix spike outside QC limits. Sample was re-analyzed with similar results.

X7: Recovery of matrix spike outside QC limits. Matrix interference is indicated by blank spike recovery data.

X8: Surrogate was diluted out during analysis.

X9: Surrogate recovery outside QC limits due to matrix composition.

X10: Surrogate recovery outside QC limits due to high contaminant levels.

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215
Units: ug/kg
Date: October 15, 1992
Blank No: S6259

METHOD BLANK

Compound	Blank Value	PQL
Phenol	ND	870
bis(2-Chloroethyl) ether	ND	870
2-Chlorophenol	ND	870
1,3-Dichlorobenzene	ND	870
1,4-Dichlorobenzene	ND	870
Benzyl Alcohol	ND	1,300
1,2-Dichlorobenzene	ND	870
2-Methylphenol	ND	870
bis(2-Chloroisopropyl)ether	ND	870
4-Methylphenol	ND	870
N-Nitroso-Di-N-propylamine	ND	870
Hexachloroethane	ND	870
Nitrobenzene	ND	870
Isophorone	ND	870
2-Nitrophenol	ND	870
2,4-Dimethylphenol	ND	870
Benzoic Acid	ND	3,300
bis(2-Chloroethoxy)methane	ND	870
2,4-Dichlorophenol	ND	870
1,2,4-Trichlorobenzene	ND	870
Naphthalene	ND	870
4-Chloroaniline	ND	1,300
Hexachlorobutadiene	ND	870
4-Chloro-3-methylphenol	ND	1,300
2-Methylnaphthalene	ND	870
Hexachlorocyclopentadiene	ND	870
2,4,6-Trichlorophenol	ND	870
2,4,5-Trichlorophenol	ND	870
2-Chloronaphthalene	ND	870
2-Nitroaniline	ND	3,300
Dimethyl phthalate	ND	870
Acenaphthylene	ND	870

Continued . . . . .

SOUND ANALYTICAL SERVICES, INC.

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215
Units: ug/kg
Date: October 15, 1992
Blank No: S6259

METHOD BLANK

Compound	Blank Value	PQL
3-Nitroaniline	ND	3,300
Acenaphthene	ND	870
2,4-Dinitrophenol	ND	3,300
4-Nitrophenol	ND	3,300
Dibenzofuran	ND	870
2,4-Dinitrotoluene	ND	870
2,4-Dinitrotoluene	ND	870
2,6-Dinitrotoluene	ND	870
Diethylphthalate	ND	870
4-Chlorophenyl phenyl ether	ND	870
Fluorene	ND	870
4-Nitroaniline	ND	3,300
4,6-Dinitro-2-methylphenol	ND	3,300
N-Nitrosodiphenylamine	ND	870
4-Bromophenyl phenyl ether	ND	870
Hexachlorobenzene	ND	870
Pentachlorophenol	ND	3,300
Phenanthrene	ND	870
Anthracene	ND	870
Di-n-butylphthalate	3,300	870
Fluoranthene	ND	870
Pyrene	ND	870
Butyl benzyl phthalate	ND	870
3,3'-Dichlorobenzidine	ND	1,300
Benzo(a)anthracene	ND	870
bis(2-ethylhexyl)phthalate	ND	870
Chrysene	ND	870
Di-n-octyl phthalate	ND	870
Benzo(b)fluoranthene	ND	870
Benzo(k)fluoranthene	ND	870
Benzo(a)pyrene	ND	870
Indeno(1,2,3-cd)pyrene	ND	870
Dibenz(a,h)anthracene	ND	870
Benzo(g,h,i)perylene	ND	870

Continued. . . . .

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

SEMIVOLATILE ORGANICS PER EPA SW-846 METHOD 8270

Client: Burlington Environmental Engineering
Lab No: 27215
Units: ug/kg
Date: October 15, 1992
Blank No: S6259

ND = Not Detected.

PQL = Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

* Compound was detected but below PQL. Value shown is an estimated quantity.

SEMIVOLATILE SURROGATES

Surrogate	Percent Recovery	Control Limits Water	Soil
Nitrobenzene - d5	93	35 - 114	23 - 120
2-Fluorobiphenyl	81	43 - 116	30 - 115
p-Terphenyl-d14	89	33 - 141	18 - 137
Phenol-d6	82	10 - 94	24 - 113
2-Fluorophenol	94	21 - 100	25 - 121
2,4,6-TBP	90	10 - 123	19 - 122

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

TPH-418.1

Client: Burlington Environmental Engineering
Lab No: 27215
Matrix: Soil
Units: mg/kg
Date: October 15, 1992

DUPLICATES

Dup No. 27267-1

Parameter	Sample (S)	Duplicate (D)	RPD
TPH 19,000	23,000	14.6	

RPD = Relative Percent Difference
= [(S - D) / ((S + D) / 2] x 100

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MSD No. 27267-1

Parameter	Sample Result (SR)	Spiked Sample Result (MS)	Spike Added (SA)	%R	Spike Dup Result (MSD)	RPD
TPH	19,000	19,000	750	X5	21,000	10.0

%R = Percent Recovery
= [(MS - SR) / SA] x 100

RPD = Relative Percent Difference
= [(MS - MSD) / ((MS + MSD) / 2] x 100

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT

WTPH-D (Diesel Range Organics

Client: Burlington Environmental Engineering
Lab No: 27215
Matrix: Soil
Units: mg/kg
Date: October 15, 1992

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MSD No. 27172-2

Parameter	Sample Result (SR)	Spiked Sample Result (MS)	Spike Added (SA)	%R	Spike Dup Result (MSD)	RPD
WTPH-D	< 25	379	405	94	399	5.1

%R = Percent Recovery
= [(MS - SR) / SA] x 100

RPD = Relative Percent Difference
= [(MS - MSD) / ((MS + MSD) / 2] x 100

SOUND ANALYTICAL SERVICES, INC.

QUALITY CONTROL REPORT
Semi-Volatile Organics

Client: Burlington Environmental Engineering
Lab No: 27215
Matrix: Soil
Units: mg/kg
Date: October 15, 1992

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MSD No. 27171-1

COMPOUND	SPIKE (ug/kg)	SAMPLE RESULT	CONC MS	% REC	CONC MSD	% REC	RPD
1,2,4-Trichlorobenzene	4,300	ND	2,100	49	920	21	80
Acenaphthene	4,300	ND	3,100	72	1,900	44	48
2,4 Dinitrotoluene	4,300	ND	2,900	67	1,400	33	68
Pyrene	4,300	ND	3,300	77	2,000	47	48
N-nitrosodi-n-Propylamine	4,300	ND	2,800	65	1,400	33	65
1,4-Dichlorobenzene	4,300	ND	1,000	23	370	9	88
Pentachlorophenol	4,300	ND	1,800	42	860	20	71
Phenol	4,300	ND	2,800	65	1,500	35	60
2-Chlorophenol	4,300	ND	2,900	67	1,500	35	63
4-Chloro-3-Methylphenol	4,300	ND	2,500	58	1,200	28	70
4-Nitrophenol	4,300	ND	1,200	28	1,000	23	20

RPD = Relative Percent Difference
% REC = Percent Recovery

*QC Limits:	RPD	% RECOVERY
1,2,4-Trichlorobenzene	23	38-107
Acenaphthene	19	31-137
2,4 Dinitrotoluene	47	28-89
Pyrene	36	35-142
N-nitrosodi-n-Propylamine	38	41-126
1,4-Dichlorobenzene	27	28-104
Pentachlorophenol	47	17-109
Phenol	35	26-90
2-Chlorophenol	50	25-102
4-Chloro-3-Methylphenol	33	26-103
4-Nitrophenol	50	11-114

Quantitation Report File: S6259

Data: S6259.TI
09/24/92 16:22:00
Sample: SBLK32
Conds.: METHOD 8270
Formula: 9/24/92 SOIL GPC Instrument: FINN Weight: 0.000
Submitted by: EP Analyst: EP Acct. No.: -

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	1,4-DICHLOROBENZENE-D4
2	NAPHTHALENE-D8
3	ACENAPHTHENE-D10
4	PHENANTHRENE-D10
5	CHRYSENE-D12
6	PERYLENE-D12
7	NITROBENZENE-D5
8	2-FLUOROBIPHENYL
9	TERPHENYL-D14
10	PHENOL-D5
11	2-FLUOROPHENOL
12	2,4,6-TRIBROMOPHENOL
13	PHENOL
14	BIS(2-CHLOROETHYL)ETHER
15	2-CHLOROPHENOL
16	1,3-DICHLOROBENZENE
17	1,4-DICHLOROBENZENE
18	BENZYL_ALCOHOL
19	1,2-DICHLOROBENZENE
20	2-METHYLPHENOL (O-CRESOL)
21	2,2'-OXYBIS(1-CHLOROPROPANE)
22	4-METHYLPHENOL (P-CRESOL - COELUTES WITH M-CRESOL)
23	N-NITROSO-DI-N-PROPYLAMINE
24	HEXACHLOROETHANE
25	NITROBENZENE
26	ISOPHORONE
27	2-NITROPHENOL
28	2,4-DIMETHYLPHENOL
29	BENZOIC_ACID
30	BIS(2-CHLOROETHOXY)METHANE
31	2,4-DICHLOROPHENOL
32	1,2,4-TRICHLOROBENZENE
33	NAPHTHALENE
34	4-CHLOROANILINE
35	HEXACHLOROBUTADIENE
36	4-CHLORO-3-METHYLPHENOL
37	2-METHYLNAPHTHALENE
38	HEXACHLOROCYCLOPENTADIENE
39	2,4,6-TRICHLOROPHENOL
40	2,4,5-TRICHLOROPHENOL
41	2-CHLORONAPHTHALENE
42	2-NITROANILINE
43	DIMETHYLPHTHALATE
44	ACENAPHTHYLENE
45	2,6-DINITROTOLUENE
46	3-NITROANILINE
47	ACENAPHTHENE

No	Name
48	2,4-DINITROPHENOL
49	4-NITROPHENOL
50	DIBENZOFURAN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	770	8:15	1	1.000	A BB	29560.	40.000 UG/	7.15
2	136	1060	11:22	2	1.000	A BB	107318.	40.000 UG/	7.15
3	164	1466	15:43	3	1.000	A BB	62566.	40.000 UG/	7.15
4	188	1808	19:23	4	1.000	M XX	94692.	40.000 UG/	7.15
5	240	2424	25:59	5	1.000	A BB	66732.	40.000 UG/	7.15
6	264	2731	29:16	6	1.000	A BB	65012.	40.000 UG/	7.15
7	82	900	9:39	2	0.849	A BB	50522.	46.659 UG/	8.34
8	172	1322	14:10	3	0.902	A BB	91007.	45.679 UG/	8.16
9	244	2195	23:31	5	0.906	A BB	86630.	44.420 UG/	7.94
10	99	717	7:41	1	0.931	A BB	49897.	41.149 UG/	7.35
11	112	486	5:13	1	0.631	A BB	42836.	47.066 UG/	8.41
12	330	1651	17:42	4	0.913	A BB	11208.	44.991 UG/	8.04
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
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41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

BURLINGTON ENVIRONMENTAL

210 West Sand Bank Road
P.O. Box 330
Columbia, IL 62236-0330
618/281-7173
618/281-5120 FAX

CHAIN-OF-CUSTODY RECORD

C.O.C. SERIAL NO. 6061

PROJECT NAME PICP '91
PROJECT NUMBER 607878 MAJOR TASK
SAMPLERS J. PEALE
LAB DESTINATION GOLDER ANALYTICAL LABS

SAMPLE NO.	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	NO. OF CONTAINERS	TYPE OF ANALYSIS: PCBs	TPH 418.1	TPH 8015				PRESERVATIVES: ICED	CHEMICALS ADDED	REMARKS (CHEMICAL ANALYSIS REQUEST FORM NUMBER IF APPLICABLE)
✓	9-17	1300		X	CP-11A-10-5-5.5	1	X	X	X				X		
✓	↓	1330		X	CP-11A-10-6-6.5	1	X	X	X				X		
				X	~~CP-11A-11-5-5.5~~	~~1~~ D									
✓		1400		X	CP-11A-11-1.5-2	1	X	X	X				X		
✓	↓	1420		X	CP-11A-11-6-6.5	1	X	X	X				X		

RELINQUISHED BY

SIGNATURE	DATE	TIME
J. Peale	9-18	1040

RECEIVED BY

SIGNATURE	DATE	TIME
K Pelmquist	9-18	1042

SHIPPING NOTES

LAB NOTES

BE-34 (1/92)